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APPLICATION NO	O.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/697,839		10/30/2003	Vivek Jairazbhoy	10541-1888	9281
29074	7590	06/01/2005		EXAMINER	
VISTEO	N		MCKINNON, TERRELL L		
C/O BRINKS HOFER GILSON & LIONE PO BOX 10395				ART UNIT	PAPER NUMBER
	O, IL 606	10	•	3743	

DATE MAILED: 06/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			m					
	Application No.	Applicant(s)						
	10/697,839	JAIRAZBHOY ET AL.						
Office Action Summary	Examiner	Art Unit						
	Terrell L. Mckinnon	3743						
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address						
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep- if NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailinearned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tin oly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication D (35 U.S.C. § 133).						
Status								
1) Responsive to communication(s) filed on 30 (October 2003.							
	s action is non-final.							
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4) ⊠ Claim(s) 1-19 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-19 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/a	awn from consideration.							
Application Papers								
9) The specification is objected to by the Examin 10) The drawing(s) filed on 10/30/2003 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	☑ accepted or b) ☐ objected to by e drawing(s) be held in abeyance. Sec ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d	l) .					
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in Applicationity documents have been received in Applicationity documents have been received in Application.	ion No ed in this National Stage						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 10/30/2003.	4) Interview Summary Paper No(s)/Mail Di 5) Notice of Informal F 6) Other:							

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Ishikawa et al. (JP 63-140753).

Ishikawa discloses the production of porous heat radiators comprising all of the applicant's claimed and disclosed limitation of the instant invention.

3. Claims 1-10 and 13-19 are rejected under 35 U.S.C. 102(e) as being anticipated by Hsu (U.S. 6,705,393).

Hsu discloses a micro-porous heat sink comprising all of the applicant's claimed and disclosed limitation of the instant invention.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishikawa et al. (JP 63-140753) in view of Ozmat (U.S. 5,402,002).

Ishikawa's invention discloses all of the claimed limitations from above except for a liquid; a dielectric fluid is forced through the porous portion.

6. However, Ozmat teaches the use of a liquid being forced through the porous portion of a device for cooling heat generating components.

Given the teachings of Ozmat, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the porous heat radiators of Ishikawa with a liquid, a dielectric fluid is forced through the porous portion.

Doing so would provide a cooling means to facilitate the transfer of heat from the heat exchange device.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following references cited on the USPTO 892 discloses related limitations of the applicant's claimed and disclosed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Terrell L. Mckinnon whose telephone number is 571-272-4797. The examiner can normally be reached on Monday -Thursday and every other Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Bennett can be reached on 571-272-4791. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Terrell L Mckinnon Primary Examiner Art Unit 3743

May 31, 2005